

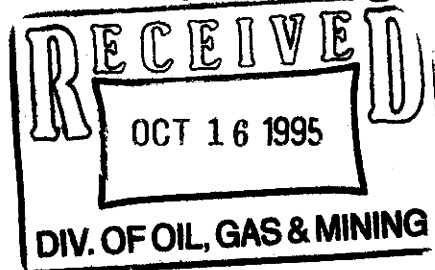
P O. Box 421
Eureka, Utah 84628
(801) 433-6804
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Wayne

M/023/007



North Lily Mining Company



DOGM
MINERALS PROGRAM
FILE COPY

October 10, 1995

State of Utah
Attn: Compliance and Monitoring Program
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4780

RE: Third Quarter Monitoring Report 1995

Dear Compliance and Monitoring Personnel:

In compliance with Part II of the Ground Water Discharge Permit No. 23000 issued to North Lily Mining Company in May 1991, please find enclosed:

1. Pad and pond sump logs for the third quarter of 1995
2. Well water analysis for third quarter of 1995
3. Spillway samples from the third quarter 1995

All analysis of solution taken from sump samples were composite and delivered to Rocky Mountain Geochemical Corp., in Salt lake City, Utah for analysis. The analytical method used to determine gold and silver values was an atomic absorption spectrometer and all analysis were preformed by Mr. Jim Cardwell of Rocky Mountain Geochemical. Values reported on the sump logs ie. - gold, silver and sodium cyanide levels are reported in parts per million, and the gallons, represent gallons in a 24 hour period.

The pad and pond sumps continue to be checked on a regular basis, but due to the reduced volume of solution in the system detectable levels are not often found. Only on days when solutions have been pumped from a sump are they recorded.

Well water samples were delivered to Chemtec, a Utah certified laboratory, on September 7, 1995 for analysis with a request that the water be analyzed per the specification required by the Division of Water Quality.

Spillway samples have been taken to monitor the reduction of metals and cyanide in the solution coming off the heap leach pads. This has been done to enable North Lily to better meet and comply with state and federal water quality standards. The following table outlines the progress to date on some of the metals and cyanide (all analysis are reported in mg/l):

- 0007

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PARAMETER	*GROUND WATER QUALITY STANDARD	DETECTED IN				
		JUL 1993	DEC 1994	MAR 1995	JUN 1995	SEP 1995
Fluoride as F	2.4	1.60	7.88	2.49	4.94	5.2
Arsenic as As	0.05	0.916	0.286	0.604	0.59	0.814
Barium as Ba	2.0	<.1	0.031	0.016	0.018	0.02
Cadmium as Cd	0.005	<.1	<.001	<.001	<.001	<0.01
Chromium as Cr	0.1	<.1	<.007	<.01	<.007	<0.01
Copper as Cu	1.3	1110	430	340	283	255
Lead as Pb	0.015	<.2	0.155	0.088	0.066	0.100
*Mercury as Hg	0.002	0.141	0.255	0.388	0.0020	0.232
Selenium as Se	0.05	0.529	0.122	0.140	0.24	0.17
Silver as Ag	0.05	4.41	0.061	3.61	1.8	4.24
Zinc As Zn	5.0	0.381	0.661	0.093	0.500	0.19
Cyanide as CN-T	0.75	1480	579	344	256	300
Cyanide as CN-Wad	0.20	1264	N/R	77.6	239	291 mcy/r
Cyanide as CN- Free	N/A	512	N/R	INTER	179	*COMMENT
pH	6.5 to 8.5	10.0	8.61	9.41	8.82	9.31

* Administrative Rules For Ground Water Quality Protection - Effective Date of Last Revision - March 20, 1995

* Digested analyzed by AWAL

* Note: Free Cyanide test experienced matrix interference. No reported value provide

As the above table indicates, there was a slight increase in several metals and cyanide in the last quarter. This we believe is due to rinsing in areas that during the first and second quarters were difficult to reach. North Lily is pleased however that for the most part there is a downward trend in metals and cyanide in the solution coming off the heap leach pads.

Nature continues to help in the rinsing of the heap leach pads at North Lily's Silver City operation this year. The following table lists the moisture received by month to date this year (amounts are reported in inches):

PRECIPITATION LOG
FOR 1995

<u>DATE</u>	<u>MOISTURE AS RAIN</u>	<u>AMOUNT IN SNOW</u>
January	1.115	17.75
February	0.220	16.00
March	2.355	3.50
First Quarter Total	3.690	37.25

Page 3 Third Quarter Monitoring Report 1995

<u>DATE</u>	<u>MOISTURE AS RAIN</u>	<u>AMOUNT IN SNOW</u>
April	2.095	10.00
May	5.065	0.00
June	1.445	0.00
Second Quarter Total	8.605	10.00

<u>DATE</u>	<u>MOISTURE AS RAIN</u>	<u>AMOUNT IN SNOW</u>
July	0.580	0.00
August	0.012	0.00
September	0.280	0.00
Third Quarter Total	0.872	0.00
Total to Date 1995	13.169	47.25

The amount of moisture received has helped enormously in the reduction of metals and cyanide in the solutions coming from the heap leach pads. It has also been a benefit because of the overall coverage on the heap leach pads that could only be obtained by moisture received in the form of rain and/or snow. Because of the amount of moisture received from nature this year no fresh water has been added to the system.

The portable carbon column plant added to the system in November of 1994, in which solutions coming from the pads are run through, is in continuous use. This is having a multi beneficial effect on the operation, several of which are; gold and silver values continue to be recovered, this has offset some of the monitoring costs, some of the base metals contained in the solution will be recovered making them easier to dispose of, and the complex wad cyanide compounds that have been building in the system are being broken down, all of which brings the solution closer to water quality standards.

The carbon plant was scheduled to be used through October 1995, but because of the slight increases in metals and cyanide, North Lily will continue to use the carbon plant during the fourth quarter of this year. At that time metals, cyanide and other complex compounds that exceed water quality standards will be evaluated to determine the most effective way to bring them into compliance with water quality standards.

It was North Lily's intention to start grading and contouring the heaps leach pads in the third quarter of 1995, but this has been postponed until early spring 1996.

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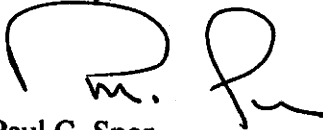
Rinsing of the pads will continue over the entire heap leach pad until water quality standards are met. After water quality standards are met it is proposed that the preg and barren ponds be filled in with a coarse gravel and capped with top soil, fertilized, mulched, and seeded. The preg and barren ponds could then serve as holding ponds should unwanted solution come from the graded and contoured pads at some point in the future. The overflow pond could be filled in and contoured as previously planned.

If you have questions and/or comments, please call.

Paul C. Spor or
Eureka Office
P.O. Box 421
Eureka, Utah 84628
801-433-6804 Phone
801-433-6803 Fax

Paul C. Spor
St. George Office
390 South 600 East
St. George, Utah 84770
801-634-1584 Phone/Fax/Messages

Sincerely,

A handwritten signature in black ink, appearing to be 'P. C. Spor', written over a horizontal line.

Paul C. Spor
General Manager

cc: Roger A. Foisy, Division of Water Quality
Wayne Hedberg, Division of Oil, Gas, and Mining

Third Quarter 1995 Sump Log

DATE	SUMP	POND	TIME	Au	Ag	pH	NaCH	GALLONS	NAME
8/24	Pres	29	10:00	1.2	11.0	9.0	.000	4.0	Troy
	Barren	24	"			9.0	.013	2.5	"
	Overflow	1	"			8.0	.000	1.5	"
	#1		"			8.0	.000	3.0	"
	#2		"			8.1	.000	1.0	"
8/27	Pres	31	17:50			9.2	.000	5.0	Troy
	Barren	33	"			9.1	.010	2.5	"
	Overflow	1	"			8.0	.000	4.0	"
	#1		"			8.1	.000	1.0	"
	#2		"			8.1	.000	1.0	"
9/2	Pres	28	11:00	1.3	11.5	9.2	.000	4.5	Donald
	Barren	25	"			9.1	.010	3.0	"
	Overflow	1	"			8.1	.000	3.0	"
	#1		"			8.0	.000	1.0	"
	#2		"			8.0	.000	1.0	"
9/9	Pres	26	14:00			9.2	.000	3.0	Johnny
	Barren	30	"			9.2	.013	2.0	"
	Overflow	1	"			8.2	.000	1.0	"
	#1		"			8.1	.000	1.5	"
	#2		"			8.1	.000	1.0	"
9/14	Pres	31	12:00			9.2	.000	4.5	Elwin
	Barren	24	"			9.1	.010	3.0	"
	Overflow	1	"			8.1	.000	2.0	"
	#1		"			8.0	.000	1.5	"
	#2		"			8.0	.000	1.0	"
9/20	Pres	26	10:00			9.1	.000	3.5	Troy
	Barren	26	"			9.1	.011	1.535	"
	Overflow	1	"			8.1	.000	1.015	"
	#1		"			8.0	.000	1.515	"
	#2		"			8.0	.000	1.015	"
9/28	Pres	29	11:00			9.2	.000	2.0	Johnny
	Barren	24	"			9.2	.013	1.5	"
	Overflow	1	"			8.1	.000	1.0	"
	#1		"			8.0	.000	.5	"
	#2		"			8.0	.000	.5	"

Third Quarter 1995 Sump Log

DATE	SUMP	POND	TIME	Au	Ag	pH	NaCH	GALLONS	NAME
7/24	Preg	30.5'	14:00	1.4	11.2	9.0	.000	7.5	Tracy
	Barren	31'	"			9.6	.010	8.0	"
	Overflow	1	"			8.0	.000	2.5	"
	#1		"			8.1	.000	2.0	"
	#2		"			8.2	.000	1.0	"
7/29	Preg	34'	09:00			8.8	.000	5.0	Johnny
	Barren	30'	"			9.2	.011	5.5	"
	Overflow	1'	"			8.0	.000	3.0	"
	#1		"			8.0	.000	0.5	"
	#2		"			8.4	.000	0.5	"
8/1	Preg	29	13:00	1.2	11.0	8.8	.000	10.0	Tracy
	Barren	30	"			9.2	.010	5.0	"
	Overflow	1	"			8.0	.000	2.5	"
	#1		"			8.1	.000	2.5	"
	#2		"			8.1	.000	0.5	"
8/7	Preg	33	14:00			8.9	.000	3.0	Donald
	Barren	24	"			9.1	.011	1.5	"
	Overflow	1	"			8.0	.000	1.5	"
	#1		"			8.1	.000	1.0	"
	#2		"			8.2	.000	1.0	"
8/12	Preg	29	10:00			9.0	.000	4.0	Tracy
	Barren	30	"			9.2	.010	1.5	"
	Overflow	1	"			8.1	.000	3.0	"
	#1		"			8.0	.000	1.0	"
	#2		"			8.0	.000	1.0	"
8/16	Preg	28	10:00			9.1	.000	4.5	Johnny
	Barren	30	"			9.1	.008	2.5	"
	Overflow	1	"			8.0	.000	0.5	"
	#1		"			8.1	.000	1.0	"
	#2		"			8.1	.000	1.0	"
8/20	Preg	31	15:00			9.2	.000	5.5	Tracy
	Barren	25	"			9.1	.010	2.5	"
	Overflow	1	"			8.0	.000	3.5	"
	#1		"			8.0	.000	1.0	"
	#2		"			8.0	.000	2.0	"

Third Quarter 1995 Sump Log

DATE	SUMP	POND	TIME	Au	Ag	pH	NaCH	GALLONS	NAME
7/2	Preg	34	09:00	11.4	11.2	8.7	.000	3.0	Johnny
	Barren	30	"			9.2	.012	2.0	"
	Overflow	1	"			8.0	.000	2.5	"
	#1		"			8.0	.000	2.0	"
	#2		"			8.4	.000	2.0	"
7/5	Preg	32	13:00			8.8	.000	2.0	Trey
	Barren	36.5	"			9.3	.009	2.0	"
	Overflow	1	"			8.1	.000	7.0	"
	#1		"			8.2	.000	0.5	"
	#2		"			8.5	.000	0.5	"
7/9	Preg	34'	15:00			8.9	.000	1.5	Johnny
	Barren	27'	"			9.3	.008	1.0	"
	Overflow	1'	"			8.2	.000	2.0	"
	#1		"			8.0	.000	1.0	"
	#2		"			8.0	.000	2.0	"
7/12	Preg	30'	10:00			8.9	.000	10.0	Trey
	Barren	33.5'	"			9.4	.009	5.0	"
	Overflow	1'	"			8.0	.000	3.0	"
	#1		"			8.2	.000	2.0	"
	#2		"			8.1	.000	4.0	"
7/15	Preg	30'	15:00			8.9	.000	2.0	Elwin
	Barren	28'	"			8.4	.009	9.0	"
	Overflow	1'	"			8.1	.000	3.0	"
	#1		"			8.1	.000	0.5	"
	#2		"			8.1	.000	1.0	"
7/19	Preg	37.5'	13:00			9.0	.000	1.5	Trey
	Barren	24'	"			9.4	.010	10.0	"
	Overflow	1'	"			8.2	.000	1.0	"
	#1		"			8.3	.000	2.0	"
	#2		"			8.3	.000	4.0	"
7/22	Preg	31.5'	15:00			9.1	.000	3.0	Donald
	Barren	29.5'	"			9.5	.011	5.0	"
	Overflow	1'	"			8.1	.000	1.0	"
	#1		"			8.2	.000	0.5	"
	#2		"			8.1	.000	0.5	"

CHEMTECH

ANALYTICAL LABORATORIES

To: NORTH LILY MINING CO.
P.O. BOX 68
EUREKA, UT 84628

Date: 10/ 9/95

Lab #: 95-U032694
Project: SILVER CITY PROJECT
Sample Desc: WELL WATER/STORAGE INLET
Date Sampled: 9/ 7/95
Date Submitted: 9/ 7/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Beryllium (T), as Ba, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Cadmium (T), as Cd, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Calcium (T), as Ca, mg/L	62.6	0.2	9/ 8/95	EPA 200.7	JO
Chromium(T), as Cr, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Copper (T), as Cu, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Iron (T), as Fe, mg/L	0.05	0.04	9/ 8/95	EPA 200.7	JO
Lead (T), as Pb, mg/L	0.012	0.01	9/ 8/95	EPA 200.7	JO
Magnesium (T), as Mg, mg/L	34.1	0.1	9/ 8/95	EPA 200.7	JO
Manganese (T), as Mn, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Nickel (T), as Ni, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Potassium (T), as K, mg/L	3.4	0.1	9/ 8/95	EPA 200.7	JO
Silver (T), as Ag, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Sodium (T), as Na, mg/L	58.4	0.2	9/ 8/95	EPA 200.7	JO
Zinc (T), as Zn, mg/L	0.07	0.02	9/ 8/95	EPA 200.7	JO
Selenium (T), as Se, mg/L	0.003	0.002	9/12/95	EPA 200.9	LH
Thallium (T), as Tl, mg/L	< 0.001	0.001	9/12/95	EPA 200.9	LH

Approved By:

Russell Buckman

10/09/95

13:39

CHEMTECH + 1+801+634+1584

NO. 986

702

CHEMTECH

ANALYTICAL LABORATORIE

To: NORTH LILY MINING CO.
P.O. BOX 68
EUREKA, UT 84628

Date: 10/ 9/95

Lab #: 95-U032694
Project: SILVER CITY PROJECT
Sample Desc: WELL WATER/STORAGE INLET
Date Sampled: 9/ 7/95
Date Submitted: 9/ 7/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	151	1	9/11/95	SM 2320B	TM
Carbonate as CO ₃ , mg/L	< 1	1	9/11/95	SM 2320B	TM
Hydroxide as OH, mg/L	< 1	1	9/11/95	SM 2320B	TM
Alkalinity, Total, mg/L	124	1	9/11/95	SM 2320B	TM
Anion,	8.47				
Cation,	8.56				
Chloride, mg/L	144	1	9/ 8/95	EPA 325.3	TM
Conductance, Specific, umhos/cm	894.0	0.5	9/ 8/95	EPA 120.1	TM
Cyanide (T), mg/L	< 0.002	0.002	9/12/95	ASTM D2036	EG
Fluoride, mg/L	0.2	0.1	9/13/95	EPA 340.2	DI
Hardness, EDTA Titration, mg/L	300	5	9/12/95	EPA 130.2	TM
Mercury, as Hg, mg/L	< 0.0002	0.0002	9/21/95	EPA 245.1	TH
Nitrite, Nitrogen, mg/L	0.008	0.005	9/ 7/95	EPA 354.1	ST
Nitrate/Nitrite-Nitrogen, mg/L	0.86	0.02	9/19/95	EPA 353.1	TH
pH, mg/L	7.59	0.05	9/11/95	EPA 150.1	TM
Phosphorus, Ortho, mg/L	< 0.02	0.02	9/ 8/95	SM 4500	DI
Sulfate, mg/L	93	5	9/14/95	EPA 375.4	TM
Total Dissolved Solids, mg/L	567	5	9/11/95	EPA 160.1	MA
Total Suspended Solids, mg/L	< 2.5	2.5	9/11/95	EPA 160.2	MA
Turbidity, NTU	0.32	0.05	9/ 8/95	EPA 180.1	ST
Antimony (T), as Sb, mg/L	< 0.05	0.05	9/ 8/95	EPA 200.7	JO
Arsenic (T), as As, mg/L	< 0.05	0.05	9/ 8/95	EPA 200.7	JO
Barium (T), as Ba, mg/L	0.07	0.02	9/ 8/95	EPA 200.7	JO

Approved By:

Burrell Buckman

CHEMTECH

ANALYTICAL LABORATORIES

To: NORTH LILY MINING CO.
P.O. BOX 68
EUREKA, UT 84628

Date: 10/10/95

Lab #: 95-U032695
Project: SILVER CITY PROJECT
Sample Desc: SPILLWAY SAMPLE
Date Sampled: 9/7/95
Date Submitted: 9/7/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	554	1	9/11/95	SM 2320B	TM
Carbonate as CO ₃ , mg/L	171	1	9/11/95	SM 2320B	TM
Hydroxide as OH, mg/L	< 1	1	9/11/95	SM 2320B	TM
Alkalinity, Total, mg/L	329	1	9/11/95	SM 2320B	TM
Anion,	298.0				
Cation,	273.0				
Chloride, mg/L	2,560	1	9/8/95	EPA 325.3	TM
Conductance, Specific, umhos/cm	23,100	0.5	9/8/95	EPA 120.1	TM
Cyanide, Free,	Comment	0.002	10/10/95	ASTM D2036	RIF
Cyanide (T), mg/L	300	0.002	9/12/95	ASTM D2036	EG
Cyanide, WAD, mg/L	291	0.002	10/10/95	ASTM D2036	EG
Fluoride, mg/L	5.2	0.5	9/13/95	EPA 340.2	DI
Hardness, EDTA Titration, mg/L	1,250	5	9/12/95	EPA 130.2	TM
Mercury, as Hg, mg/L	0.2320	0.0003	9/21/95	EPA 245.1	TH
Nitrite, Nitrogen, mg/L	0.490	0.25	9/7/95	EPA 354.1	ST
Nitrate/Nitrite-Nitrogen, mg/L	9.56	0.02	9/19/95	EPA 353.1	TM
pH, Units	9.31	0.05	9/11/95	EPA 150.1	TM
Phosphorus, Ortho, mg/L	0.38	0.01	9/8/95	SM 4500	DI
Sulfate, mg/L	10,100	5	9/14/95	EPA 375.4	TM
Total Dissolved Solids, mg/L	19,300	5	9/11/95	EPA 160.1	MA
Total Suspended Solids, mg/L	< 2.5	2.5	9/11/95	EPA 160.2	MA
Turbidity, NTU	0.28	0.05	9/8/95	EPA 180.1	ST
Antimony (T), as Sb, mg/L	0.085	0.01	9/8/95	EPA 200.7	JO

Approved By:



10/10/95

16:33

CHEMTECH + 1+801+634+1584

NO. 007

D03

CHEMTECH

ANALYTICAL LABORATORIES

Date: 10/10/95

To: NORTH LILY MINING CO.
P.O. BOX 68
EUREKA, UT 84628

Lab #: 95-U032695
Project: SILVER CITY PROJECT
Sample Desc: SPILLWAY SAMPLE
Date Sampled: 9/ 7/95
Date Submitted: 9/ 7/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Arsenic (T), as As, mg/L	0.814	0.02	9/ 8/95	EPA 200.7	JO
Barium (T), as Ba, mg/L	0.02	0.02	9/ 8/95	EPA 200.7	JO
Beryllium (T), as Be, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Cadmium (T), as Cd, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Calcium (T), as Ca, mg/L	421	0.2	9/ 8/95	EPA 200.7	JO
Chromium (T), as Cr, mg/L	< 0.01	0.01	9/ 8/95	EPA 200.7	JO
Copper (T), as Cu, mg/L	255	0.01	9/ 8/95	EPA 200.7	JO
Iron (T), as Fe, mg/L	0.02	0.04	9/ 8/95	EPA 200.7	JO
Lead (T), as Pb, mg/L	0.100	0.01	9/ 8/95	EPA 200.7	JO
Magnesium (T), as Mg, mg/L	4.8	0.1	9/ 8/95	EPA 200.7	JO
Manganese (T), as Mn, mg/L	0.05	0.01	9/ 8/95	EPA 200.7	JO
Nickel (T), as Ni, mg/L	0.97	0.01	9/ 8/95	EPA 200.7	JO
Potassium (T), as K, mg/L	288	0.1	9/ 8/95	EPA 200.7	JO
Selenium (T), as Se, mg/L	0.17	0.04	9/ 8/95	EPA 200.7	JO
Silver (T), as Ag, mg/L	4.24	0.005	9/ 8/95	EPA 200.7	JO
Sodium (T), as Na, mg/L	5,610	0.2	9/11/95	EPA 200.7	JO
Zinc (T), as Zn, mg/L	0.19	0.02	9/ 8/95	EPA 200.7	JO
Thallium (T), as Tl, mg/L	0.023	0.001	9/11/95	EPA 200.9	LH

NOTE: Free Cyanide test experienced matrix interference.
No reported value provided

Date/Time	Comments
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P O. Box 421
Eureka, Utah 84628
(801) 433-6804
FAX (801) 433-6803

M/023/007

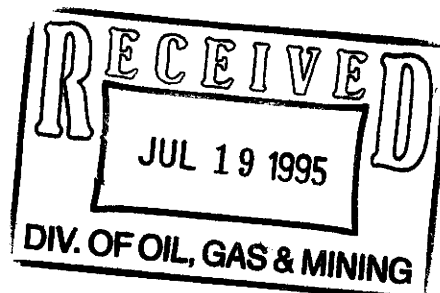


North Lily Mining Company

July 13, 1995

**DOGM
MINERALS PROGRAM
FILE COPY**

State of Utah
Attn: Compliance and Monitoring Program
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4780



**DOGM
MINERALS PROGRAM
FILE COPY**

RE: Second Quarter Monitoring Report 1995

Dear Compliance and Monitoring Personnel:

In compliance with Part II of the Ground Water Discharge Permit No. 23000 issued to North Lily Mining Company in May 1991, please find enclosed:

1. Pad and pond sump logs for the second quarter of 1995
2. Well water analysis for second quarter of 1995
3. Spillway samples from the second quarter 1993, forth quarter of 1994, and the first and second quarters of 1995

All analysis of solution taken from sump samples were composite and delivered to Rocky Mountain Geochemical Corp., in Salt lake City, Utah for analysis. The analytical method used to determine gold and silver values was an atomic absorption spectrometer and all analysis were preformed by Mr. Jim Cardwell of Rocky Mountain Geochemical. Values reported on the sump logs ie. - gold, silver and sodium cyanide levels are reported in parts per million, and the gallons, represent gallons in a 24 hour period.

The pad and pond sumps continue to be checked on a regular basis, but due to the reduced volume of solution in the system detectable levels are not often found. Only on days when solutions have been pumped from a sump are they recorded.

Well water samples were delivered to Chemtec, a Utah certified laboratory, on June 7, 1995 for analysis with a request that the water be analyzed per the specification required by the Division of Water Quality.

Spillway samples have been taken to monitor the reduction of metals and cyanide in the solution coming off the heap leach pads. This has been done to enable North Lily to better meet and comply with state and federal water quality standards. The following table outlines the progress to date on some of the metals and cyanide (all analysis are reported in mg/l):

Page 2 Second Quarter Monitoring Report 1995

PARAMETER	*GROUND WATER QUALITY		DETECTED IN		
	STANDARD	JULY 1993	DEC. 1994	MAR. 1995	JUN. 1995
Fluoride as F	2.4	1.60	7.88	2.49	4.94
Arsenic as As	0.05	0.916	0.286	0.604	0.59
Barium as Ba	2.0	<.1	0.031	0.016	0.018
Cadmium as Cd	0.005	<.1	<.001	<.001	<.001
Chromium as Cr	0.1	<.1	<.007	<.01	<.007
Copper as Cu	1.3	1110	430	340	283
Lead as Pb	0.015	<.2	0.155	0.088	0.066
*Mercury as Hg	0.002	0.141	0.255	0.388	0.0020
Selenium as Se	0.05	0.529	0.122	0.140	0.24
Silver as Ag	0.05	4.41	0.061	3.61	1.8
Zinc As Zn	5.0	0.381	0.661	0.093	0.500
Cyanide as CN-T	0.75	1480	579	344	256
Cyanide as CN-Wad	0.20	1264	N/R	77.6	239
Cyanide as CN- Free	N/A	512	N/R	INTER	179
pH	6.5 to 8.5	10.0	8.61	9.41	8.82

* Administrative Rules For Ground Water Quality Protection - Effective Date of Last Revision - March 20, 1995

* Digested analyzed by AWAL

As the above table shows North Lily is pleased to report significant reductions in most metals and cyanide in the past year.

Nature has helped in the rinsing of the heap leach pads at North Lily's Silver City operation this year. The following table lists the moisture received by month to date this year (amounts are reported in inches):

PRECIPITATION LOG
FOR 1995

<u>DATE</u>	<u>MOISTURE AS RAIN</u>	<u>AMOUNT IN SNOW</u>
January	1.115	17.75
February	0.220	16.00
March	2.355	3.50
First Quarter Total	3.690	37.25

<u>DATE</u>	<u>MOISTURE AS RAIN</u>	<u>AMOUNT IN SNOW</u>
April	2.095	10.00
May	5.065	0.00
June	1.445	0.00
Second Quarter Total	8.605	10.00
Total to Date 1995	12.295	47.25

The amount of moisture received has helped enormously in the reduction of metals and cyanide in solution coming from the pads. It has also been a benefit because of the overall coverage on the heap leach pads that could only be obtained by moisture received in the form of rain and/or snow. As solution levels coming from the pads are reduced by evaporation fresh water will be added to the system to continue the rinsing cycle.

The portable carbon column plant added to the system in November of 1994, in which solutions coming from the pads are run through, is in continuous use. This is having a multi beneficial effect on the operation, several of which are; gold and silver values continue to be recovered, this has offset some of the monitoring costs, some of the base metals contained in the solution will be recovered making them easier to dispose of, and the complex wad cyanide compounds that have been building in the system are being broken down, all of which brings the solution closer to water quality standards.

The carbon plant is currently scheduled to be used through October 1995. At that time metals, cyanide and other complex compounds that exceed water quality standards will be examined to determine the most effective way to bring them into compliance with water quality standards.

It is North Lily's intention to start grading and contouring the heaps leach pads in the third quarter of 1995. Rinsing of the pads will continue over the entire heap leach pad until water quality standards are met. After water quality standards are met it is proposed that the preg and barren ponds be filled in with a coarse gravel and capped with top soil, fertilized, mulched, and seeded. The preg and barren ponds could then serve as holding ponds should there be unwanted solution coming from the graded and contoured pads at some point in the future. The overflow pond could be filled in and contoured as previously planned.

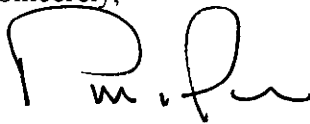
Page 4 Second Quarter Monitoring Report 1995

If you have questions and/or comments, please call.

Paul C. Spor or
Eureka Office
P.O. Box 421
Eureka, Utah 84628
801-433-6804 Phone
801-433-6803 Fax

Paul C. Spor
St. George Office
390 South 600 East
St. George, Utah 84770
801-634-1584 Phone/Fax/Messages

Sincerely,

A handwritten signature in black ink, appearing to read 'P. C. Spor', with a stylized flourish at the end.

Paul C. Spor
General Manager

cc: Roger A. Foisy, Division of Water Quality
Wayne Hedberg, Division of Oil, Gas, and Mining

SUMP LOG - Second Quarter 1995

DATE	SUMP	POND LEVEL	TIME	AU	AG	pH	NaCN	GALLONS	NAME
4/6	Preg	33	1300	1.0	13.8	8.9	.000	3.0	Troy
	Barren	33	"	"	"	9.7	.005	2.0	"
	Overflow	4	"	"	"	8.0	.000	5.0	"
	#1	spitway	"	"	"	8.2	.000	2.0	"
	#2	spitway	"	"	"	8.2	.000	2.0	"
4/9	Preg		1500			8.8	.000	1.5	Donald
	Barren		"			9.6	.006	1.5	"
	Overflow		"			8.0	.000	8.0	"
	#1	spillway	"			8.1	.006	2.5	"
	#2	"	"			8.2	.000	2.0	"
4/12	Preg		1400			9.0	.000	2.0	Troy
	Barren		"			9.7	.008	1.0	"
	Overflow		"			8.1	.000	5.0	"
	#1	spillway	"			8.3	.000	1.5	"
	#2	"	"			8.3	.000	1.0	"
4/16	Preg		1600			8.5	.000	1.5	Johnny
	Barren		"			9.4	.009	1.0	"
	Overflow		"			7.9	.000	4.0	"
	#1	spillway	"			8.0	.000	2.0	"
	#2	"	"			8.0	.000	1.5	"
4/20	Preg		1600			8.9	.000	1.5	Troy
	Barren		"			9.6	.006	1.5	"
	Overflow		"			8.0	.000	3.0	"
	#1	spillway	"			8.0	.000	1.5	"
	#2	"	"			8.0	.000	1.0	"
4/23	Preg		1300			9.0	.000	2.0	Elwin
	Barren		"			9.8	.009	1.5	"
	Overflow		"			8.1	.000	1.0	"
	#1	spillway	"			8.1	.000	8.0	"
	#2	"	"			8.0	.000	1.0	"
4/26	Preg		1450			9.0	.000	2.0	Troy
	Barren		"			9.6	.004	1.5	"
	Overflow		"			8.2	.000	7.0	"
	#1	spillway	"			8.3	.000	1.0	"
	#2	"	"			8.3	.000	2.0	"

SUMP LOG Second Quarter 1995

DATE	SUMP	POND TIME	AU	AG	pH	NaCN	GALLONS	NAME
		LEVEL						
4/30	Preg	1450	1.0	134	9.1	.000	2.5	Donald
	Barren	"			8.1	.003	3.0	"
	overflow	"			8.1	.000	3.0	"
	#1 Spillway	"			8.1	.000	5.0	"
	#2	"			8.0	.000	1.0	"
5/3	Preg	1300			8.9	.000	2.0	Troy
	Barren	"			9.5	.006	2.0	"
	overflow S'	"			8.0	.000	6.0	"
	#1 Spillway	"			8.4	.000	1.0	"
	#2	"			8.4	.000	1.0	"
5/7	Preg	1400			9.0	.000	2.5	Johnny
	Barren	"			9.8	.007	2.5	"
	overflow S'	"			8.0	.000	8.0	"
	#1 Spillway	"			8.4	.000	1.5	"
	#2	"			8.4	.000	2.0	"
5/10	Preg	1550			8.7	.000	1.5	Troy
	Barren	"			9.4	.007	2.5	"
	overflow S'	"			8.2	.000	1.0	"
	#1 Spillway	"			8.4	.000	1.5	"
	#2	"			8.3	.000	1.0	"
5/13	Preg	1000			8.8	.000	2.5	Elwin
	Barren	"			9.3	.011	2.0	"
	overflow S'	"			8.4	.000	1.5	"
	#1 Spillway	"			8.4	.000	1.0	"
	#2	"			8.3	.000	1.0	"
5/17	Preg	1000			8.9	.000	1.5	Troy
	Barren	"			9.1	.000	2.0	"
	overflow S'	"			8.1	.000	6.0	"
	#1 Spillway	"			8.2	.000	1.0	"
	#2	"			8.1	.000	2.0	"
5/20	Preg	1600			8.9	.000	1.5	Donald
	Barren	"			9.1	.002	3.5	"
	overflow	"			8.2	.000	1.5	"
	#1 Spillway	"			8.2	.000	5.0	"
	#2	"			8.1	.000	5.0	"

SUMP LOG - Second Quarter 1995

DATE	SUMP	POND LEVEL	TIME	AU	AG	pH	NaCN	GALLONS	NAME
5/24	Preg	29'	1100	1.0	13.0	8.8	.000	2.5	Troy
	Barren	33'	"			9.2	.003	3.0	"
	overflow	5'	"			8.1	.000	3.0	"
	#1	Spillway	"			8.0	.000	5.0	"
	#2	"	"			8.0	.000	1.0	"
5/25	Preg	27 1/2'	1000			8.7	.000	2.0	Johnny
	Barren	34'	"			9.1	.006	6.0	"
	overflow	"	"			8.3	.000	1.0	"
	#1	Spillway	"			8.3	.000	1.0	"
	#2	"	"			8.3	.000	2.5	"
6/4	Preg	30'	1100			8.8	.000	3.0	Troy
	Barren	26'	"			9.0	.010	2.0	"
	overflow	2'	"			8.2	.000	5.0	"
	#1	Spillway	"			8.3	.000	2.0	"
	#2	"	"			8.1	.000	2.0	"
6/16	Preg	29'	1300			8.7	.000	2.0	Elwin
	Barren	32'	"			9.1	.011	1.0	"
	overflow	1'	"			8.2	.000	5.0	"
	#1	Spillway	"			8.2	.000	1.5	"
	#2	"	"			8.1	.000	1.0	"
6/21	Preg	28'	1400			8.8	.000	2.0	Troy
	Barren	31'	"			9.2	.009	1.5	Troy
	overflow	1'	"			8.1	.000	1.0	"
	#1	Spillway	"			8.0	.000	8.0	"
	#2	"	"			8.1	.000	1.0	"
6/29	Preg	27'	1550			8.9	.000	2.0	Donald
	Barren	30'	"			9.1	.010	6.0	"
	overflow	1'	"			8.1	.000	1.0	"
	#1	Spillway	"			8.1	.000	2.0	"
	#2	"	"			8.2	.000	1.5	"



TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

DATE: 6-30-95

SAMPLE ID: Lab #U027983 - Well Water Sink
DATE SAMPLED: 6-07-95 DATE SUBMITTED: 6-07-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Alkalinity as CaCO ₃ , mg/l	111	SM17 2320B	6-15-94	5.0
Bicarbonate as HCO ₃ , mg/l	136	SM17 2320B	6-15-95	5.0
Carbonate as CO ₃ , mg/l	<1	SM17 2320B	6-15-95	1.0
Carbonate Solids, mg/l	67	Calculation	6-15-95	
Hydroxide as OH, mg/l	<1	SM17 2320B	6-15-95	1.0
Chloride as Cl, mg/l	155	EPA 325.3	6-19-95	0.5
CO ₂ , mg/l	100	SM17 2320B	6-15-95	
Conductivity, umhos/cm	889	EPA 120.1	6-13-95	5.0
Cyanide as CN-T, mg/l	<.002	ASTM D2036	6-12-95	0.002
Fluoride as F, mg/l	<.02	EPA 340.2	6-14-95	0.02
Hardness as CaCO ₃ , mg/l	291	EPA 130.2	6-19-95	5.0
NO ₃ -N + NO ₂ -N, mg/l	0.911	EPA 353.1	6-14-95	0.01
pH Units	8.04	EPA 150.1	6-13-95	--
Ortho-Phosphorus as P, mg/l	<.02	SM17 4500E	6-08-95	0.02
Sulfate as SO ₄ , mg/l	99.5	EPA 375.4	6-12-95	5.0
Total Dissolved Solids, mg/l	536	EPA 160.1	6-13-95	5.0
TSS, mg/l	<2.5	EPA 160.2	6-13-95	2.5
Turbidity, NTU	0.88	EPA 180.1	6-08-95	0.1
Antimony as Sb, mg/l	0.0074	EPA 200.7	6-09-95	0.003
Arsenic as As, mg/l	<.005	EPA 200.9	6-09-95	0.005
Barium as Ba, mg/l	0.067	EPA 200.7	6-09-95	0.01
Beryllium as Be, mg/l	<.001	EPA 200.7	6-09-95	0.001
Cadmium as Cd, mg/l	<.001	EPA 200.7	6-09-95	0.001
Calcium as Ca, mg/l	62.5	EPA 200.7	6-09-95	0.1

Approved By: 



TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

DATE: 6-30-95

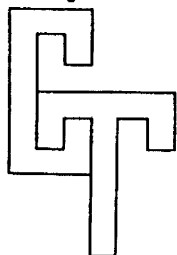
SAMPLE ID: Lab #U027983 - Well Water Sink
DATE SAMPLED: 6-07-95 DATE SUBMITTED: 6-07-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Chromium as Cr, mg/l	<.007	EPA 200.7	6-09-95	0.007
Copper as Cu, mg/l	0.063	EPA 200.7	6-09-95	0.01
Iron as Fe, mg/l	0.17	EPA 200.7	6-09-95	0.01
Lead as Pb, mg/l	<.005	EPA 200.9	6-14-95	0.005
Magnesium as Mg, mg/l	34.7	EPA 200.7	6-09-95	0.1
Manganese as Mn, mg/l	<.01	EPA 200.7	6-09-95	0.01
*Mercury as Hg, mg/l	<.0002	EPA 245.1	6-13-95	0.0002
Nickel as Ni, mg/l	<.01	EPA 200.7	6-09-95	0.01
Potassium as K, mg/l	3.7	EPA 200.7	6-09-95	0.1
Selenium as Se, mg/l	0.0031	EPA 200.9	6-09-95	0.002
Silver as Ag, mg/l	0.0031	EPA 200.7	6-09-95	0.002
Sodium as Na, mg/l	62.9	EPA 200.7	6-09-95	0.1
Thallium as Tl, mg/l	<.001	EPA 200.9	6-09-95	0.001
Zinc as Zn, mg/l	0.065	EPA 200.7	6-09-95	0.01
Nitrite as NO ₂ -N, mg/l	<.005	EPA 354.1	6-08-95	0.005
Cation, meq/l	8.81			
Anion, meq/l	8.67			

* = Digestate analyzed by AWAL.

Approved By: 



CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER
MURRAY, UTAH 84107
PHONE: (801) 262-7299
FAX: (801) 262-7378

TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

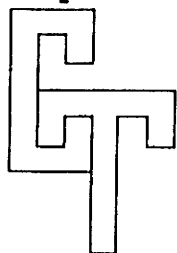
DATE: 7-13-93

SAMPLE ID: Lab #U096704 - Silver City Joint Venture Main Spillway, 6-21-93
DATE SUBMITTED: 6-21-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Alkalinity as CaCO_3 , mg/l	1,127	SM17 2320B	6-22-93	5.0
Ammonia as $\text{NH}_3\text{-N}$, mg/l	277	SM17 4500G	7-06-93	0.2
Arsenic as As, mg/l	0.916	EPA 200.7	6-23-93	0.5
Barium as Ba, mg/l	<.1	EPA 200.7	6-30-93	0.1
Bicarbonate as HCO_3 , mg/l	1,155	SM17 2320B	6-22-93	5.0
Cadmium as Cd, mg/l	<.1	EPA 200.7	6-29-93	0.1
Calcium as Ca, mg/l	475	EPA 200.7	6-30-93	0.1
Carbonate as CO_3 , mg/l	108	SM17 2320B	6-22-93	1.0
Chloride as Cl, mg/l	4,020	EPA 325.3	6-22-93	0.5
Chromium as Cr (Hex), mg/l	<1	SM14 307B	6-22-93	1.0
Chromium as Cr, mg/l	0.119	EPA 200.7	6-29-93	0.1
Conductivity, umhos/cm	20,200	EPA 120.1	6-28-93	5.0
Copper as Cu, mg/l	1,110	EPA 200.7	6-29-93	0.1
Fluoride as F, mg/l	1.60	EPA 340.2	6-21-93	0.1
Hardness as CaCO_3 , mg/l	1,198	EPA 130.2	6-30-93	5.0
Hydroxide as OH, mg/l	<1	SM17 2320B	6-22-93	--
Iron as Fe (Diss), mg/l	0.321	EPA 236.1	6-29-93	0.1
Iron as Fe (Tot), mg/l	0.097	EPA 200.7	6-29-93	0.01
Lead as Pb, mg/l	<.2	EPA 200.7	6-29-93	0.2
Magnesium as Mg, mg/l	2.91	EPA 200.7	6-30-93	0.1
Manganese as Mn, mg/l	<.1	EPA 200.7	6-29-93	0.1
Mercury as Hg, mg/l	0.141	EPA 245.1	6-28-93	0.0002
Nickel as Ni, mg/l	0.812	EPA 200.7	6-29-93	0.1


Joel Workman



CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER
MURRAY, UTAH 84107
PHONE: (801) 262-7299
FAX: (801) 262-7378

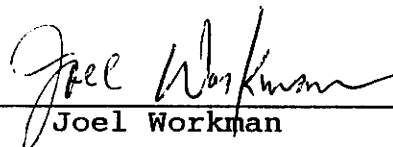
TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

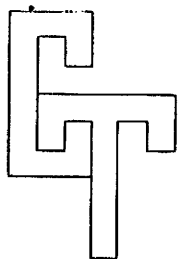
DATE: 7-13-93

SAMPLE ID: Lab #U096704 - Silver City Joint Venture Main Spillway, 6-21-93
DATE SUBMITTED: 6-21-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
NO ₃ -N + NO ₂ -N, mg/l	0.566	EPA 353.1	7-01-93	0.01
Phosphorus as P, mg/l	1.14	EPA 200.7	6-29-93	0.1
Potassium as K, mg/l	213	EPA 200.7	6-30-93	0.1
Selenium as Se, mg/l	0.529	EPA 200.7	6-29-93	0.4
Silica as SiO ₂ , mg/l	70.1	EPA 370.1	6-30-93	0.1
Silver as Ag, mg/l	4.41	EPA 200.7	6-29-93	0.1
Sodium as Na, mg/l	4,860	EPA 200.7	6-30-93	0.1
Sulfate as SO ₄ , mg/l	6,500	375.4/4500D/C	7-01-93	5.0
Total Dissolved Solids, mg/l	16,900	EPA 160.1	6-23-93	5.0
Turbidity, NTU	2.60	EPA 180.1	6-22-93	0.1
Zinc as Zn, mg/l	0.381	EPA 200.7	6-29-93	0.1
pH Units	10.0	EPA 150.1	6-21-93	--
Cyanide as CN (T), mg/l	1,480	D2036	7-01-93	0.002
Cyanide as CN (WAD), mg/l	1,264	D2036	7-05-93	0.002
Cyanide as CN (Free), mg/l	512	D2036	7-12-93	0.01


Joel Workman



CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER
MURRAY, UTAH 84107
PHONE: (801) 262-7299
FAX: (801) 262-7378

TO: North Lily Mining, Co.
P.O. Box 421
Eureka, Utah 84068

DATE: 12-28-94

SAMPLE ID: Lab #U019481 - Main Spillway

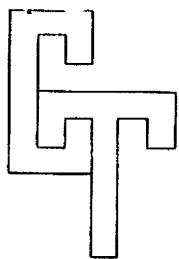
DATE SAMPLED: 12-8-94

DATE SUBMITTED: 12-8-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Alkalinity as CaCO ₃ , mg/l	500	SM17 2320B	12-13-94	5.0
Bicarbonate as HCO ₃ , mg/l	576	SM17 2320B	12-13-94	5.0
Carbonate as CO ₃ , mg/l	16	SM17 2320B	12-13-94	1.0
Carbonate Solids, mg/l	300	Calculation	12-13-94	
Hydroxide as OH, mg/l	<1	SM17 2320B	12-13-94	--
Chloride as Cl, mg/l	2,770	EPA 325.3	12-15-94	0.5
CO ₂ , mg/l	430	SM 2320B	12-13-94	
Conductivity, umhos/cm	21,300	EPA 120.1	12-13-94	5.0
Cyanide as CN-T, mg/l	579	ASTM D2036	12-19-94	0.002
Fluoride as F, mg/l	7.88	EPA 340.2	12-15-94	0.1
Hardness as CaCO ₃ , mg/l	1,110	EPA 130.2	12-11-94	5.0
NO ₃ -N + NO ₂ -N, mg/l	10.8	EPA 353.1	12-12-94	0.01
pH Units	8.61	EPA 150.1	12-9-94	--
Orthophosphate as P, mg/l	0.344	SM17 4500E	12-9-94	0.01
Sulfate as SO ₄ , mg/l	8,620	SM 4500	12-14-94	5.0
Total Dissolved Solids, mg/l	18,100	EPA 160.1	12-12-94	5.0
TSS, mg/l	9	EPA 160.2	12-12-94	2.5
Turbidity, NTU	0.86	EPA 180.1	12-9-94	0.1
Antimony as Sb, mg/l	0.060	EPA 200.7	12-12-94	0.003
Arsenic as As, mg/l	0.286	EPA 200.9	12-12-94	0.005
Barium as Ba, mg/l	0.031	EPA 200.7	12-12-94	0.01
Beryllium as Be, mg/l	<.001	EPA 200.7	12-12-94	0.001
Cadmium as Cd, mg/l	<.001	EPA 200.7	12-12-94	0.001
Calcium as Ca, mg/l	336	EPA 200.7	12-12-94	0.1

Approved By: _____



CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER
MURRAY, UTAH 84107
PHONE: (801) 262-7299
FAX: (801) 262-7378

TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

DATE: 12-28-94

SAMPLE ID: Lab #U019481 - Main Spillway
DATE SAMPLED: 12-8-94 DATE SUBMITTED: 12-8-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Chromium as Cr, mg/l	<.007	EPA 200.7	12-12-94	0.007
Copper as Cu, mg/l	430	EPA 200.7	12-12-94	0.01
Iron as Fe, mg/l	0.52	EPA 200.7	12-12-94	0.01
Lead as Pb, mg/l	0.155	EPA 200.9	12-12-94	0.005
Magnesium as Mg, mg/l	6.6	EPA 200.7	12-12-94	0.1
Manganese as Mn, mg/l	0.108	EPA 200.7	12-12-94	0.01
Mercury as Hg, mg/l	0.255	EPA 245.1	12-13-94	0.0002
Nickel as Ni, mg/l	0.89	EPA 200.7	12-12-94	0.01
Potassium as K, mg/l	237	EPA 200.7	12-12-94	0.1
Selenium as Se, mg/l	0.122	EPA 200.9	12-12-94	0.002
Silver as Ag, mg/l	0.061	EPA 200.7	12-12-94	0.002
Sodium as Na, mg/l	4,482	EPA 200.7	12-19-94	0.1
Thallium as Tl, mg/l	0.125	EPA 200.9	12-12-94	0.001
Zinc as Zn, mg/l	0.661	EPA 200.7	12-12-94	0.01

NOTE: Sample temp. when submitted was 8.8°C on ice.

Approved By: _____



TO: North Lily Mining, Co.
P.O. Box 421
Eureka, Utah 84068

DATE: 4-7-95

SAMPLE ID: Lab #U023621 - Main Spillway

DATE SAMPLED: 3-15-95

DATE SUBMITTED: 3-15-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Alkalinity as CaCO_3 , mg/l	475	SM17 2320B	3-24-95	5.0
Bicarbonate as HCO_3 , mg/l	2,281	SM17 2320B	3-24-95	5.0
Carbonate as CO_3 , mg/l	173	SM17 2320B	3-24-95	1.0
Carbonate Solids, mg/l	285	Calculation	3-24-95	
Hydroxide as OH, mg/l	<1	SM17 2320B	3-24-95	--
Chloride as Cl, mg/l	2,760	EPA 325.3	3-28-95	0.5
CO_2 , mg/l	292	SM 2320B	3-24-95	
Conductivity, umhos/cm	20,200	EPA 120.1	3-21-95	5.0
Cyanide as CN-T, mg/l	344	ASTM D2036	4-06-95	0.002
Fluoride as F, mg/l	2.49	EPA 340.2	3-21-95	0.1
Hardness as CaCO_3 , mg/l	1,170	EPA 130.2	3-31-95	5.0
$\text{NO}_3\text{-N} + \text{NO}_2\text{-N}$, mg/l	7.04	EPA 353.1	3-17-95	0.01
pH Units	9.41	EPA 150.1	3-16-95	--
Phosphate as $\text{PO}_4\text{-T}$, mg/l	0.212	SM17 4500E	3-29-95	0.01
Sulfate as SO_4 , mg/l	8,210	SM 4500	3-21-95	5.0
Total Dissolved Solids, mg/l	17,780	EPA 160.1	3-21-95	5.0
TSS, mg/l	<2.5	EPA 160.2	3-21-95	2.5
Turbidity, NTU	14	EPA 180.1	3-15-95	0.1
Antimony as Sb, mg/l	0.039	EPA 200.7	3-16-95	0.003
Arsenic as As, mg/l	0.604	EPA 200.9	3-16-95	0.005
Barium as Ba, mg/l	0.016	EPA 200.7	3-16-95	0.01
Beryllium as Be, mg/l	<.001	EPA 200.7	3-16-95	0.001
Cadmium as Cd, mg/l	<.001	EPA 200.7	3-16-95	0.001
Calcium as Ca, mg/l	406	EPA 200.7	3-16-95	0.1

Approved By: Joel Workman



TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

DATE: 4-7-95

SAMPLE ID: Lab #U023621 - Main Spillway
DATE SAMPLED: 3-15-95 DATE SUBMITTED: 3-15-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Chromium as Cr, mg/l	<.01	EPA 200.7	3-16-95	0.01
Copper as Cu, mg/l	340	EPA 200.7	3-16-95	0.01
Iron as Fe, mg/l	0.042	EPA 200.7	3-16-95	0.01
Lead as Pb, mg/l	0.088	EPA 200.7	3-16-95	0.005
Magnesium as Mg, mg/l	3.4	EPA 200.7	3-16-95	0.1
Manganese as Mn, mg/l	0.012	EPA 200.7	3-16-95	0.01
Mercury as Hg, mg/l	0.388	EPA 245.1	3-16-95	0.0002
Nickel as Ni, mg/l	0.92	EPA 200.7	3-16-95	0.01
Potassium as K, mg/l	237	EPA 200.7	3-16-95	0.1
Selenium as Se, mg/l	0.140	EPA 200.7	3-16-95	0.002
Silver as Ag, mg/l	3.61	EPA 200.7	3-16-95	0.002
Sodium as Na, mg/l	4,589	EPA 200.7	3-16-95	0.1
Thallium as Tl, mg/l	0.028	EPA 200.9	3-16-95	0.001
Zinc as Zn, mg/l	0.093	EPA 200.7	3-16-95	0.01
Cation, meq/l	226	---	---	
Anion, meq/l	258	---	---	
Cyanide as CN-WAD, mg/l	77.6	D2036-89	4-6-95	
Cyanide as CN-Free, mg/l	(Inter.)	D2036-89	4-6-95	

NOTE: Sample temp. when submitted was 11.7°C on ice.

Approved By: Joe Workman



TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

DATE: 6-30-95

SAMPLE ID: Lab #U027984 - Spillway Sample

DATE SAMPLED: 6-07-95

DATE SUBMITTED: 6-07-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Alkalinity as CaCO ₃ , mg/l	458	SM17 2320B	6-15-94	5.0
Bicarbonate as HCO ₃ , mg/l	400	SM17 2320B	6-15-95	5.0
Carbonate as CO ₃ , mg/l	78	SM17 2320B	6-15-95	1.0
Carbonate Solids, mg/l	275	Calculation	6-15-95	
Hydroxide as OH, mg/l	<1	SM17 2320B	6-15-95	1.0
Chloride as Cl, mg/l	2,480	EPA 325.3	6-19-95	0.5
CO ₂ , mg/l	347	SM17 2320B	6-15-95	
Conductivity, umhos/cm	20,400	EPA 120.1	6-13-95	5.0
Cyanide as CN-T, mg/l	256	ASTM D2036	6-12-95	0.002
Fluoride as F, mg/l	4.94	EPA 340.2	6-14-95	0.02
Hardness as CaCO ₃ , mg/l	1,060	EPA 130.2	6-19-95	5.0
NO ₃ -N + NO ₂ -N, mg/l	<.02	EPA 353.1	6-14-95	0.01
pH Units	8.82	EPA 150.1	6-13-95	--
Ortho-Phosphorus as P, mg/l	0.30	SM17 4500E	6-08-95	0.02
Sulfate as SO ₄ , mg/l	8,230	EPA 375.4	6-12-95	5.0
Total Dissolved Solids, mg/l	17,300	EPA 160.1	6-13-95	5.0
TSS, mg/l	<2.5	EPA 160.2	6-13-95	2.5
Turbidity, NTU	0.57	EPA 180.1	6-08-95	0.1
Antimony as Sb, mg/l	0.052	EPA 200.7	6-09-95	0.003
Arsenic as As, mg/l	0.59	EPA 200.9	6-09-95	0.005
Barium as Ba, mg/l	0.018	EPA 200.7	6-09-95	0.01
Beryllium as Be, mg/l	<.001	EPA 200.7	6-09-95	0.001
Cadmium as Cd, mg/l	<.001	EPA 200.7	6-09-95	0.001
Calcium as Ca, mg/l	380	EPA 200.7	6-09-95	0.1

Approved By: *John W. [Signature]*



TO: North Lily Mining
P.O. Box 421
Eureka, Utah 84068

DATE: 6-30-95

SAMPLE ID: Lab #U027984 - Spillway Sample

DATE SAMPLED: 6-07-95

DATE SUBMITTED: 6-07-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>METHOD CODE</u>	<u>DATE ANALYZED</u>	<u>MDL</u>
Chromium as Cr, mg/l	<.007	EPA 200.7	6-09-95	0.007
Copper as Cu, mg/l	283	EPA 200.7	6-09-95	0.01
Iron as Fe, mg/l	0.038	EPA 200.7	6-09-95	0.01
Lead as Pb, mg/l	0.066	EPA 200.9	6-14-95	0.005
Magnesium as Mg, mg/l	4.8	EPA 200.7	6-09-95	0.1
Manganese as Mn, mg/l	0.077	EPA 200.7	6-09-95	0.01
*Mercury as Hg, mg/l	0.0020	EPA 245.1	6-13-95	0.0002
Nickel as Ni, mg/l	0.85	EPA 200.7	6-09-95	0.01
Potassium as K, mg/l	226	EPA 200.7	6-09-95	0.1
Selenium as Se, mg/l	0.24	EPA 200.7	6-09-95	0.002
Silver as Ag, mg/l	1.8	EPA 200.7	6-09-95	0.002
Sodium as Na, mg/l	4,950	EPA 200.7	6-09-95	0.1
Thallium as Tl, mg/l	<.4	EPA 200.9	6-09-95	0.4
Zinc as Zn, mg/l	0.50	EPA 200.7	6-09-95	0.01
Nitrite as NO ₂ -N, mg/l	0.332	EPA 354.1	6-08-95	0.005
Cyanide as CN-WAD, mg/l	239	D2036-89	6-09-95	
Cyanide as CN-Free, mg/l	179	D2036-89	6-09-95	
Cation, meq/l	240			
Anion, meq/l	251			

* = Digestate analyzed by AWAL.

Approved By: John W. Kram